

File 02227

25 April 1967

MEMORANDUM FOR THE RECORD

SUBJECT: Twin Stage On-Line Comparator (02227)

1. The project monitor telephoned the local sales representative for [] and requested additional information on their proposal. [] [] called back late on 24 April 1967 to provide the following information.

2. The following are the questions asked by the monitor and the reply from []

a. Does the bid include: [] Stereoviewer? [] or equivalent display and panel? PDP-8/s Computer and Teletype? Computer Programming? They are all included in the bid!

b. Does the 9 month delivery date take into account the 6-8 month lead time on the [] Stereo Head? [] is being optimistic and hoping to get it in 6 months.

c. Does the price include delivery and installation in Washington, D.C.? No, the bid is FOB [] Plant.

d. We are not familiar with the [] encoders, have you used them before?

The method they [] are proposing is similar to the Ferranti sine method and has a reliability of 1 part in 100,000. It uses a coarser pitch on the gratings than Ferranti; but sums part of the sine with the cosine to get the accuracy. [] is using a [] absolute system (1 micron) on 10 units for the Air Force. [] says it is a magnitude of 2 to 3 times faster than the [] DIG system.

e. Is there a sine-cosine potentiometer for the joystick to make image motion correspond to hand motion? No, [] is trying to keep the instrument simple. They expect the operator to use Kappa adjustment on the stage to align the imagery with the joystick.

NGA Review Complete

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25X1 f. Do you think the PDP-8/s is adequate to handle the problem?
[] photogrammetrist has reviewed the problem and feels
the 12 bit word and 4K memory are adequate.

g. The price of material for option 2 is only [] more, are 25X1
you sure the computer and programming are included?
Yes, although the computer adds to the price of Option 2,
the interfacing to the 494 will not be required as in Option
1.

h. Is CPAF type contract acceptable?
Yes, any of the CP types are O.K.

i. What is the estimated weight?
1000 lbs.

25X1 3. Monitor's Comment - It is difficult to imagine that the computer, pro-
gramming and interfacing could all be included for just [] The basic 25X1
price of the PDP-8 is [] for a teletype.

25X1 []
Technical Monitor